Project Title	Funding	Institution
The microRNA pathway in translational regulation of neuronal development	$37,604	J. David Gladstone Institutes
The microRNA pathway in translational regulation of neuronal development	$376,031	University of Massachusetts Medical School
Synaptic phenotype, development, and plasticity in the fragile X mouse	$421,590	University of Illinois at Urbana Champaign
The mechanism and significance of Evf ncRNA regulation of the DLX genes	$2,425	University of Washington
Quantitative proteomic approach towards understanding and treating autism	$75,000	Emory University
BDNF and the restoration of spine plasticity with autism spectrum disorders	$564,519	University of California, Irvine
In-vivo imaging of neuronal structure and function in a reversible mouse model for autism.	$28,000	Baylor College of Medicine
Neural circuit deficits in animal models of Rett syndrome	$44,000	Cold Spring Harbor Laboratory
Molecular basis of autism associated with human adenylosuccinate lyase gene defects	$0	University of Delaware
Establishing zebrafish as a model for RAI1 gene dosage	$74,750	Virginia Commonwealth University
Developmental versus acute mechanisms mediating altered excitatory synaptic function in the fragile X syndrome mouse model	$127,500	University of Texas Southwestern Medical Center
A longitudinal MRI study of brain development in fragile X syndrome	$617,080	University of North Carolina at Chapel Hill
Aberrant synaptic form and function due to TSC-mTOR-related mutation in autism spectrum disorders	$150,000	Columbia University
The role of the autism-associated gene tuberous sclerosis complex 2 (TSC2) in presynaptic development	$56,000	University of California, San Diego
Visual system connectivity in a high-risk model of autism	$0	Children's Hospital Boston
Cell-based genomic analysis in mouse models of Rett syndrome	$513,667	Cold Spring Harbor Laboratory
Cortical circuit changes and mechanisms in a mouse model of fragile X syndrome	$290,266	University of Texas Southwestern Medical Center
Activity-dependent phosphorylation of MeCP2	$173,979	Harvard Medical School
The role of intracellular metabotropic glutamate receptor 5 at the synapse	$25,890	Washington University in St. Louis
The role of MeCP2 in Rett syndrome	$337,753	University of California, Davis
Translation regulation in hippocampal LTP and LTD	$372,141	New York University
Modulation of fxr1 splicing as a treatment strategy for autism in fragile X syndrome	$158,649	Stanford University
Genetic and developmental analyses of fragile X syndrome	$544,592	Vanderbilt University
Development of novel diagnostics for fragile X syndrome	$532,677	JS Genetics, Inc.
Elucidating the roles of SHANK3 and FXR in the autism interactome	$396,509	Baylor College of Medicine
TrkB agonist(s), a potential therapy for autism spectrum disorders	$269,500	University of California, Los Angeles
Elucidation and rescue of amygdala abnormalities in the Fmr1 mutant mouse model of fragile X syndrome	$150,000	George Washington University
Investigation of postnatal drug intervention's potential in rescuing the symptoms of fragile X syndrome in adult mice	$0	Massachusetts Institute of Technology
Aberrant synaptic function caused by TSC mutation in autism	$75,000	Columbia University
Cellular and molecular alterations in GABAergic inhibitor circuits by mutations in MeCP2	$330,774	Cold Spring Harbor Laboratory

Project Title	Funding	Institution
Coordinated control of synapse development by autism-linked genes	$150,000	University of Texas Southwestern Medical Center
Allelic choice in Rett syndrome	$394,425	Winifred Masterson Burke Medical Research Institute
Angelman syndrome (AS)	$208,335	University of Alabama at Birmingham
Augmentation of the cholinergic system in fragile X syndrome: A double-blind placebo study	$240,000	Stanford University
Genotype-phenotype relationships in fragile X families	$535,019	University of California, Davis
L-type calcium channel regulation of neuronal differentiation	$41,380	Stanford University
Olfactory abnormalities in the modeling of Rett syndrome	$355,163	Johns Hopkins University
MicroRNAs in synaptic plasticity and behaviors relevant to autism	$131,220	Massachusetts General Hospital
Proteomics in drosophila to identify autism candidate substrates of UBE3A	$316,355	University of Tennessee Health Science Center
Regulation of synapse elimination by FMRP	$52,154	University of Texas Southwestern Medical Center
MeCP2 modulation of BDNF signaling: Shared mechanisms of Rett and autism	$320,469	University of Alabama at Birmingham
Neuronal activity-dependent regulation of MeCP2	$437,522	Harvard Medical School
Sex differences in early brain development; Brain development in Turner syndrome	$153,382	University of North Carolina at Chapel Hill
Role of intracellular mGluR5 in fragile X syndrome and autism	$75,000	Washington University in St. Louis
Regulation of 22q11 genes in embryonic and adult forebrain	$9,806	University of North Carolina at Chapel Hill
Regulation of 22q11 genes in embryonic and adult forebrain	$313,000	The George Washington University
The functional link between DISC1 and neuroligins: Two genetic factors in the etiology of autism	$0	Children's Memorial Hospital, Chicago
Functional circuit disorders of sensory cortex in ASD and RTT	$261,599	University of Pennsylvania
Fundamental mechanisms of GPR56 activation and regulation	$134,269	Emory University
Study of fragile X mental retardation protein in synaptic function and plasticity	$392,087	University of Texas Southwestern Medical Center
Gene silencing in fragile X syndrome	$323,483	National Institutes of Health
Neuronal activity-dependent regulation of MeCP2 (supplement)	$77,123	Harvard Medical School
New approaches to local translation: SpaceSTAMP of proteins synthesized in axons	$161,094	Dana-Farber Cancer Institute
Mouse models of human autism spectrum disorders: Gene targeting in specific brain regions	$400,000	University of Texas Southwestern Medical Center
Probing a monogenic form of autism from molecules to behavior	$312,500	Stanford University
Presynaptic fragile X proteins	$90,000	Brown University
Probing disrupted cortico-thalamic interactions in autism spectrum disorders	$531,624	Children's Hospital Boston